

[METHOD TO CREATE VERSATILE CONTROLLERS]

Abstract of Disclosure

A method to design a controller is provided, considering controller's versatility to work over any kind of layer 3 or layer 2 communication protocol and under any kind of control application. A programming language running on a system external to the controller considers a high level programming method. At the same time, the corresponding graphic interface needed to monitor a controller or a group of networking controllers is considered as a central program capable of communicating with the controller(s) in order to request for valuable data to monitor the control system and the process being controlled. Defining an object-oriented programming methodology the high level programming language as long as the centralized monitoring graphic interface can be abstract entities from the point of view of the controller(s) and vice versa. In order to abstract the controller from the type of selected communication protocol or control network working on layer 3 or layer 2, a network adapter is defined. The network adapter is a specialized device suitable to work with the selected communication protocol. Since the network adapter handles all network functions particular for the type of protocol, the controller only has to manage two primitive functions to send and receive data from/to the network.

09682092.07.1801